

29 November 1967

STATINTL

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[Redacted]

ATTN:

[Redacted]

Dear Al:

Sorry about the delay in responding to your letters 67-E-8-2 and -8-3 attached, but as you know various things have kept me jumping since August.

Regarding these items, the only way I see that they can be handled is through the Burbank people. Please have them contact me if there are any questions as to who authorized the work, etc.

Regarding the seat kit modification effort, again it looks like the best way to go will be to do business as usual, i.e., through the Van Nuys group. I have requested that they get together with you and submit a firm proposal to cover this effort. As you can imagine, the reasons for this are complex and I'll have to wait until I see you again to explain them all.

Yours truly,

[Redacted]

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Enclosures - 2

67-E-8-2

67-E-8-3

BEB:sjs

Revision A

Prepared By

STATINTL

Date 27 Nov. 1967

Specification for Contents of 296781 Cushion/Sleeping Bag

Sleeping Bag

1. Jacket (Hood attached)

Mfg. - Gerry Mountaineering
"Andean Jacket"

Small Size - Chest 32-36 - Arm 32
Color - Green
Material - 1.5 oz. Nylon Ripstop
Thickness - Approximately 2½"
Weight - Approximately 2 lbs. 14 oz.
Fill - Goose Down

2. Convertible Pants

Mfg. - Holubar
"Expedition Pants"

Size - Small
Material - 1.5 oz. Nylon Ripstop
Thickness - Approximately 3"
Weight - Approximately 2 lbs. 8 oz.
Waist - 30-34 (Elastic top with snaps)
Outseam Dimension - 31" across crotch level

Description

Has leg extensions which snap up when not in use or come down over feet and boots. Zippers are insulated with down tubes. Overlapping snap closures run down the inseams which can join to convert the pants into a warm half-bag.

The leg extensions join with Velcro to make a draft-free, warm foot end. Pants go on easily over boots. The snap-closed fly overlaps widely. The elastic waist is high.

3. Gloves

Mfg. - Gerry

Goose Down filled mittens with leather palms. Both left and right hand mittens are constructed with "trigger finger". Mittens have elastic in down filled glove at wrist area.
Color - Beige
Size - 7½

4. Wind Breaker

Mfg. - Holubar

2 Piece - Parka (Slip-over) & Pants
Windproof and Water Repellent Nylon
Size - Large

5. Booties

Mfg. - Gerry

Leather Insulated Sole
Nylon Tops Insulated with Goose Down
Velcro Tape snugs tops around ankle.
Size - Medium (8-9)
Color - Black

Operating Temperatures

The following excerpt from U.S. Army Quartermaster data is submitted as a guide to expected temperatures a person could comfortable endure with insulation thicknesses.

<u>Temperature</u>	<u>Sleeping</u>	<u>Light Work</u>	<u>Heavy Work</u>
40° F	1.5"	.8"	.20"
20° F	2.0"	1.0"	.27"
0° F	2.5"	1.3"	.35"
-20° F	3.0"	1.6"	.40"
-40° F	3.5"	1.9"	.48"
-60° F	4.0"	2.1"	.52"

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Revision

Prepared By

Date 5 OCT '67

Specification for Contents of 296781 Cushion/Sleeping Bag

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STATUS REPORT

April 10, 1967

I. G. Cravotta

1) Modify 4 Kits with Ads.

Project on "Hold" from Headquarters. Information provided

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2) ECP for "Raft Stabber"

Design/Proto complete. Will discuss with on 4/11/67.

II. Van Nuys Area

1) 296000 Kit - Modification

packaging new disconnects per discussions with users on 4/5/67.

Proto-Mockup for updated O₂ System will be made.

III. New Areas

1) Survival Kit for Drop-In System.

Received marked up drawing from Firewel on clearance dimension requirements of Rear Compartment. Will change and forward 4/14/67.

IV. 296000 Survival Kit Modifications.

See Attached Report.

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MEETING REPORT

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In Attendance:



April 5, 1967

1) Cushion w/Sleeping Bag, etc.

Two subjects available for very short time with Aircraft to measure seating height differentials with different cushion configurations.

	<u>Subject x</u>	<u>Subject y</u>
Standard Present Cushion (datum)		
Hard Pack Sleeping Bag Cushion	+ 1/2"	+ 3/4"
Large Soft Pack Cushion	+1 1/4"	+1 3/4"

Both subjects had interference with cushions as packed in the thigh support area.

Sleeping bags used:

Hard Packed Unit - Green Type
Soft Packed Unit - Tan Type

Proper sizing of sleeping bags for individuals should cause no seating height problem. At present, a wooden parachute support block is used. This space, (volume) will be used in repackaging the cushion.

An actual field trip is necessary to measure, size and establish proper seating conditions. This will be performed during May, 1967.

Other modifications as follows:

- a) Install manual actuator line within lanyard for optimal life raft installation.
Hold - Nice but not deemed necessary
- b) Incorporate adapter on line of lanyard (for hook-up to man). O.K.
- c) Install flotation ruck sack with latest shoulder straps, etc.
O.K. - Would also like latest retention straps ECP'd.

2) Personal Leads Disconnect

Ball lock type presented is satisfactory with the following exceptions:

- a) Do not use outer sleeve or roll pins on ball lock pin.
Use ball lock type as on F-4 Master or as on the Kit/Ship disconnect.

- b) No manual release required; however, use visual lock indicator on top block.
- c) Two channel electrical contacts needed to indicate that blocks are connected.
- d) No check valves.
- e) User would like option of having a 70 psi line available for training flight.

3) Kit/Ship Disconnect

- a) Incorporate metal flag on ball lock pin to indicate locked position.
- b) Four channel electrical disconnects required:
- 2 - for Kit/Ship Lock Indicator
 - 2 - for Kit/Man Lock Indicator

4) T-33 Kit with EFA

Base Commander is quite anxious to incorporate this system in his Aircraft if approved by [redacted]

He wants us to present this system to the Field Trip Base Commander who is tall and has the usual T-33 problem.

5) Upgrade Kit O₂ System

Would like old ECP revived - (i.e. light weight bottles, re-route O₂, lower lid). This will have to be reviewed with [redacted]

Dropping lid with new O₂ configuration could provide more packing space and enable use of a sleeping bag cushion for larger type pilots.

6-8 Weeks to prototype seat belt

Normal

{ Drop lid etc.
vac. packed bag
comfort cover

cc's

cc: (3)

8 - 10th & 11th
7th visit
H

Project Activity

New Areas

1.) Survival kit for Drop-In O₂ System.

C
O
P
Y

We have designed and submitted costs to Firewel for the two compartment kit using the present 809000 series kit (Beale Operation). This is a special application kit for a Drop-in Emer. O₂ System.

Dwg. and written proposal will be forwarded this week.

Project Activity

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C. Cravotta Area

1.) Modify 4 kits w/ADS

Samples presented last month will go with modification of present kit rather than new kit.

Cost proposal for program submitted to Firewel on March 13th. The written proposal will be forwarded this week. All other work of modifying kits on "Hold" per

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2.) E.C.P. for "Raft Stabber" in kit.

At the last meeting the problem of a raft inflating in the kit while in flight was presented. Solutions were requested. R. J. will issue an E.C.P. to Area/H.Q. within 30 days to incorporate such a device within the kit.

Project Activity

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Van Nuys Area -

1.) 296000 Kit - Modification

It is necessary for me to contact this week Re: This Mod. Program. It is necessary to resolve the configuration of the kit/man Disc. Currently the customer wants to change from the cam-loc design, if we have something different and relatively standard. Check valves in this disconnect are no longer desired.

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This phase of the program has been held up due to the European trip.

PIP-Pin Type disconnect
want Flag indicator
LAC has now

C
O
P
Y

296000 SURVIVAL KIT MODIFICATION

- a) ~~Incorporate "Gravity Drop" concept for life raft inflation.~~
- b) Install manual actuator line within lanyard for optional life raft inflation. *talk to Hg people*
- c) Incorporate adapter on line of lanyard. *7*
- d) Install floatation Rug Sock with latest shoulder straps. *7*
- e) Develop sleeping bag cushion configuration to be studied for best utilization and greatest comfort for man. Cushion to include tarp - 2 piece wind breaker - mosquito bar/booties - mitten socks and standard walk around sleeping bag.

OK
Dick M
& John S
contact
for

Dick & Tom will look see w/ RJ on 24-26
Items
after 20 April

Next 9 Page(s) In Document Exempt